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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/560,260	04/26/2000	James J. Hofmann	100718-421(MIC-79)	2379	
75	90 03/13/2003				
Richard A Goldenberg Hale and Dorr LLP 60 State Street			EXAMINER		
			CHOWDHURY, TARIFUR RASHID		
Boston, MA 02	2109				
			ART UNIT	5 PAPER NUMBER	
		·	2871		
			DATE MAILED: 03/13/2003	DATE MAILED: 03/13/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	
	09/560,260	HOFMANN ET AL.	•
Office Action Summary	Examiner	Art Unit	
	Tarifur R Chowdhury	2871	
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet	with the correspondence address	
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period v - Failure to reply within the set or extended period for reply will, by statute. - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status	36(a). In no event, however, may within the statutory minimum of will apply and will expire SIX (6) M, cause the application to become	a reply be timely filed hirty (30) days will be considered timely. ONTHS from the mailing date of this communication ABANDONED (35 U.S.C. § 133).	n.
1) Responsive to communication(s) filed on 12 F	ebruary 2003 .		
2a) This action is FINAL . 2b) ⊠ Th	is action is non-final.		
3) Since this application is in condition for alloward closed in accordance with the practice under			is
Disposition of Claims			
4)⊠ Claim(s) <u>69-74</u> is/are pending in the application			
4a) Of the above claim(s) is/are withdray	wn from consideration.		
5) Claim(s) is/are allowed.			
6)⊠ Claim(s) <u>69 and 71-74</u> is/are rejected.			
7)⊠ Claim(s) <u>70</u> is/are objected to.			
8) Claim(s) are subject to restriction and/or Application Papers	r election requirement.		
9)☐ The specification is objected to by the Examine	r.		
10) \boxtimes The drawing(s) filed on 26 April 2000 is/are: a)	☑ accepted or b)☐ object	ed to by the Examiner.	
Applicant may not request that any objection to the		• • •	
11)☐ The proposed drawing correction filed on	_is: a)☐ approved b)☐	disapproved by the Examiner.	
If approved, corrected drawings are required in rep			
12) The oath or declaration is objected to by the Ex	aminer.		
Priority under 35 U.S.C. §§ 119 and 120			
13) Acknowledgment is made of a claim for foreign	priority under 35 U.S.C	i. § 119(a)-(d) or (f).	
a) ☐ All b) ☐ Some * c) ☐ None of:			
 Certified copies of the priority documents 	s have been received.		
2. Certified copies of the priority documents	s have been received in	Application No	
 3. Copies of the certified copies of the prior application from the International But * See the attached detailed Office action for a list 	reau (PCT Rule 17.2(a)).	
14) Acknowledgment is made of a claim for domestic	·		ion).
 a) The translation of the foreign language pro 15) Acknowledgment is made of a claim for domesting 	visional application has	been received.	ŕ
Attachment(s)	•	<u></u>	
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 3	5) Notice	w Summary (PTO-413) Paper No(s) of Informal Patent Application (PTO-152)	

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DETAILED ACTION

Election/Restrictions

1. Claims 1-68 and 75-77 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected claims, there being no allowable generic or linking claim. Election was made **without** traverse in Paper #'s 6 and 8.

Specification

2. The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

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- 5. Claims 69 and 71-74 are rejected under 35 U.S.C. 103(a) as being unpatentable over by Poco et al., (Poco), USPAT 6,168,737.
- 6. Poco discloses and shows in Figs. 2A-2D, a method of forming spacers in a display comprising:
- forming positive mold (10) by depositing a layer on a support and patterning the layer of photoresist to define an array of posts (col. 2, lines 61);
- forming a resilient negative mold by depositing a material over the positive mold (col. 3, lines 3-5), the material conforming to the array of posts, allowing the material to cure, and separating the cured material from the positive mold, the negative mold defining an array of apertures, each of the apertures corresponding to one of the posts (col. 3, lines 19-21);
 - placing a negative mold in contact with a substrate (col. 3, lines 16-18);
 - filling the apertures with a spacer material (col. 3, lines 19-21);
 - allowing the spacer material to cure; and
 - separating the negative mold and the substrate.

Poco does not explicitly disclose that the positive mold is formed by depositing a layer of photoresist. However, using a photoresist layer to form a positive mold is common and known in the art and thus would have been obvious to avail a proven material.

Accordingly, claim 69 would have been obvious.

As to claims 71 and 72, using metallic alignment sheets having a plurality of

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apertures to align the mold with the substrate is common and known in the art and thus would have been obvious to improve alignment of the mold with respect to the substrate.

As to claim 73, Poco discloses that filling the apertures with spacer material comprises injecting the spacer material into the negative mold (col. 3, lines 15-16).

As to claim 74, Poco discloses that the negative mold comprises a plurality of vacuum pump out channels.

Allowable Subject Matter

7. Claim 70 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tarifur R Chowdhury whose telephone number is (703) 308-4115. The examiner can normally be reached on M-Th (6:30-5:00) Friday Off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, William L Sikes can be reached on (703) 305-4842. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 746-7005 for regular communications and (703) 308-7724 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-

T. Chowdhury

Patent Examiner

Technology Center 2800

TRC

1782.

March 6, 2003